In the Claims:

Please amend claims 1-5, 9, 12, 13, and 43, and cancel claims 17-31, 34-42 and 44-83 as follows:

- 1. (currently amended) An isolated nucleic acid comprising SEQ ID NO:1 encoding a fibroblast growth factor 23 (FGF23) wherein the polypeptide encoded by said nucleic acid has the ability to bind an FGF receptor and alter phosphate transport.
- 2. (currently amended) An isolated nucleic acid encoding a fibroblast growth factor 23 (FGF23) wherein said isolated comprising a sequence nucleic acid shares having at least 99% sequence identity with the nucleic acid sequence of at least one of SEQ ID NO:1, and wherein the polypeptide encoded by said nucleic acid has the ability to bind an FGF receptor and alter increase phosphate transport.
- 3. (currently amended) An isolated nucleic acid encoding a fibroblast growth factor 23 (FGF23) wherein said isolated nucleic acid encodes encoding a polypeptide having an amino acid sequence that shares at least 98% sequence identity with amino acid sequence of SEQ ID NO:2, wherein said polypeptide has the ability to bind an FGF receptor and alter increase phosphate transport.
- 4. (currently amended) An isolated FGF23 nucleic acid included in DSMZ Deposit No. DSM 13530, wherein said nucleic acid comprises SEQ ID NO:1 the polypeptide encoded by said FGF23 nucleic acid has the ability to bind an FGF receptor and alter phosphate transport.
- 5. (currently amended) The isolated nucleic acid of claim 1, said isolated nucleic acid further comprising a nucleic acid encoding a tag polypeptide covalently linked thereto.
- 6. (original) The isolated nucleic acid of claim 5, wherein said tag polypeptide is selected from the group consisting of a myc tag polypeptide, a glutathione-S-transferase tag polypeptide, a green fluorescent protein tag polypeptide, a myc-pyruvate kinase tag polypeptide,

a His6 tag polypeptide, an influenza virus hemagglutinin tag polypeptide, a flag tag polypeptide, and a maltose binding protein tag polypeptide.

- 7. (previously presented) The isolated nucleic acid of claim 1, said nucleic acid further comprising a promoter/regulatory sequence operably linked thereto.
 - 8. (original) A vector comprising the isolated nucleic acid of claim 1.
- 9. (currently amended) The vector of claim 8, said vector further comprising a nucleic acid specifying comprising a promoter/regulatory sequence operably linked thereto.
 - 10. (original) A recombinant cell comprising the isolated nucleic acid of claim 1.
 - 11. (original) A recombinant cell comprising the vector of claim 8.
- 12. (currently amended) An isolated nucleic acid complementary to a nucleic acid comprising that is the complement of SEQ ID NO:1-encoding a fibroblast growth factor 23 (FGF23).
- 13. (currently amended) The An isolated nucleic acid of claim 12, wherein said complementary nucleic acid shares at least 99% sequence identity with a nucleic acid complementary with a nucleic acid having the sequence of at least one which is 99% identical to the complement of SEQ ID NO:1.
 - 14. (original) A vector comprising the isolated nucleic acid of claim 12.
- 15. (previously presented) The vector of claim 14, said vector further comprising a promoter/regulatory sequence operably linked thereto.
- 16. (original) A recombinant cell comprising the isolated nucleic acid of claim 12.

17. - 31. (canceled)

- 32. (original) A composition comprising the isolated nucleic acid of claim 1 and a pharmaceutically-acceptable carrier.
- 33. (original) A composition comprising the isolated nucleic acid of claim 12 and a pharmaceutically-acceptable carrier.

34. - 42. (canceled)

43. (currently amended) A method of making an isolated protein having the ability to bind an FGF receptor and alter phosphate transport, said method comprising (a) culturing the recombinant cell of claim 11 under conditions such that said protein is expressed; and (b) recovering said protein.

44. - 83. (canceled)